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⑤④ **Multi-shell emulsion particle and process of preparing same.**

⑤⑦ A multi-shell emulsion particle comprising a dry state structure having one or more of penetrating pore connecting the surface layer of the particle with the interior of the particle and having a particle diameter of from 0.1 to 5.0 μ preferably from 0.1 to 1.2 μ can be prepared by carrying out emulsion polymerization of a vinyl monomer (a) containing from 5 to 80% by weight of an unsaturated carboxylic acid, forming a polymer (B) in the presence of a particle consisting of the resultant polymer (A) while adding a vinyl monomer (b) in an amount of 10 times by weight or less and at a rate of 3 times by weight per hour or more for the weight of the polymer (A), and treating the resultant multi-shell emulsion polymer with an alkaline material to neutralize and swell the polymer (A) ; or, after the neutralization treatment, further forming a polymer (C) by adding and emulsion-polymerizing a vinyl monomer (c) in an amount of 20 times by weight or less for the total weight of the polymer (A) and polymer (B).

The particle is useful as a component of resin composition for paints, paper-coating and heat-sensitive recording materials.

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EUROPEAN SEARCH REPORT

Application Number

EP 91 30 6441

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	EP-A-0 022 633 (ROHM AND HAAS CO.) * Claim 1 * ---	1-7, 9-12	C 08 F 285/00 C 09 D 151/00
X	EP-A-0 321 096 (ROHM AND HAAS CO.) * Example 1 * ---	1-3	B 41 M 5/26 C 08 F 2/22
A	---	1-8	
A	EP-A-0 254 467 (ROHM AND HAAS CO.) * Example 8 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C 08 F C 09 D B 41 M
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17-02-1992	Examiner LOISELET-TAISNE S.M.T.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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